









Pre-fillable syringe and stopper assembly therefor

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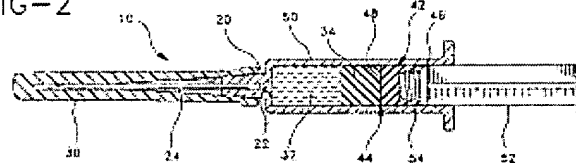
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Abstract of EP0743072

A pre-fillable hypodermic syringe is provided. The hypodermic syringe includes a syringe barrel having opposed proximal and distal ends and a drug-receiving chamber therebetween. The distal end of the syringe receives a needle cannula that is sealingly and protectively covered by a cap. The proximal end of the syringe is sealed by a stopper assembly. The stopper assembly includes a distal stopper that is positioned adjacent the drug pre-filled into the syringe barrel. The distal stopper is formed to exhibit acceptably low sliding forces without the presence of lubricants deleterious to the drug. The stopper assembly further includes a proximal stopper formed from a material that exhibits acceptable microbiological sealing. Because the proximal stopper is separated from the drug by the distal stopper the proximal stopper may be treated with any convenient lubricant, such as silicone oil. The distal stopper functions as a barrier between the drug and the lubricant such as silicone oil that is on or near the proximal stopper. The proximal stopper, on the other hand, provides the required microbiological sealing.

FIG-2



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